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Approved For Release 2000/06/14 : CIA-RDP78-06505A000300100053-5

MEMORANDUM FOR THE RECORD

25X1A

12 DEC 1968

SUBJECT: Summary of Status for [REDACTED] Receiver Station Design
Job No. 35-65C

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1. On 22 November 1968, Messrs. [REDACTED] participated in a review of subject design. [REDACTED] OL/RECD, Chief/Operations Officer [REDACTED] also attended the review with representatives of the [REDACTED] (A&E) organization. The following comments have been broken down in those of a general nature, followed by those specifically related to particular drawings as prepared by the A&E. Items requiring action are so noted.

2. General

a. The scope of work should be rewritten so as to be complete, thereby enabling all interested parties to disregard earlier versions. The project has spanned so many years and changes of personnel that a complete updating will be most helpful. (Joint Action - OL/RECD and OC-E) The [REDACTED] have requested that we forward them a complete set of our own drawings (transparencies) as theirs are in bad shape. (Action - OC-E)

b. The technical load should be rechecked for connected load and maximum demand. Heat release figures should also be rechecked and noted on a suitable drawing so as to facilitate more responsive design of the air-conditioning and heating systems. (Action - OC-E)

c. A new set of specifications and shop drawings on generators, switchgear, and related Government-furnished equipment (GFE) is required for transmittal to the [REDACTED] and the A&E. A new description of switchgear operation is also required. The [REDACTED] specifically requested a detailed description of control wiring, including any specially desired bundling, sizing, and insulation requirements. (Action - OC-E)

d. Recommendations for lighting fixtures that meet the radio interference suppression criteria were requested by the [REDACTED]. Although this information may have been passed to them at an earlier date, the Engineers were unable to locate it, possibly due to the confusion resulting from the recent fire that destroyed most of their [REDACTED] offices. It was noted that the use of U.S. fluorescent fixtures will necessitate having the contractor purchase a U.S. manufactured suspended ceiling in order to meet the modular sizing of the lighting fixtures. No problem is anticipated in specifying this ceiling. (Action - OC-E)

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C

4 DC 12/16

2 EX 12/16

C/RE

RO

13 C/ENGL 16 Dec

PE

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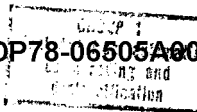
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e. The structural requirements and door requirements to meet security standards should be checked for conformity to the latest security standards. (Joint Action - OL/RECD and OC-E)

f. The second floor rooms (126 - 129) which the A&E provided will be deleted. However, the area will be walled and roofed over; access will be provided from the room under the radome. (No Action)

g. We may need a set of existing A&E drawings for reference purposes, even though they are to be significantly modified. (Action - OL/RECD)

h. Is the "high efficiency" air filter still required? (Action - OC-E)

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i. A drawing is required to illustrate how the computer floor interfaces with the [REDACTED] (Action - OC-E)

3. Sheet 2 (All following comments keyed to A&E drawing)

a. New access road will be shown.

b. Antenna cables will be rerouted to avoid drainage field; an OC-E drawing will be definitive, however. This should be furnished now.

c. Guardhouse will be labeled.

d. Local requirements are such that the substation must be outside the fence.

e. The addition of the 100-foot microwave tower (self-supporting) generated considerable discussion. [REDACTED] queried as to whether this height was based on any available profile study; he requested that [REDACTED] be further advised on this matter as soon as possible. The structural engineer [REDACTED] requested further shop drawings and design details relative to wind loading, etc.; this tower must be located at least eight meters from the receiver building, preferably 100 feet. This separation is due to soil stability conditions.

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f. Note will be added stating "Installation outside of compound of antenna bases, anchors, cable, and erection of antennas not included in construction contract". NOTE: This does not completely clarify the preparation of trenches for the antenna cables - further advice is needed.

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g. Both True and Magnetic North will be shown.

25X1A 4. Sheets 3, 5, 7, 9, and 10 - all of our comments were accepted except for the changes in restroom facilities. Considerable unexpected opposition was encountered from the [REDACTED] in regard to furnishing a second urinal in the Men's Restroom; the subject was closed by making the requirement mandatory. The sewer pipe diameters were correct.

5. Sheet 11 - the water supply system is to be extensively redesigned.

6. Sheet 12 - see paragraph 4 above.

7. Sheet 13

a. North half of building will be clear span in accordance with our scope of work. Significant structural redesign is required.

b. Antenna cable entrance will be provided.

c. GFE vault door details will be provided.

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d. Ramp access will be provided if change from driveway to inner floor level is not too great. The [REDACTED] may require that the entire compound be graded and filled to a higher elevation to avoid high water conditions.

e. Door schedule will be provided.

f. Computer flooring will be shown correctly.

g. Room finish and color schedules will be shown.

h. Incinerator will be shown as being in Room 115 and as GFE.

i. Ducts will be labeled so as to identify them more easily.

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j. The [REDACTED] requested that we (OC-E) furnish a drawing giving details of the Lockable Grill in Room 104. The slot and window should be designed so as to prevent drafts.

k. Elevation views of kitchen area will be provided.

l. Restrooms will be modified.

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m. Room 114 vault door will be Class 6.

25X1A n. The new door specifications for Corridor 116 were
turned over to the [REDACTED]

o. Our comments were accepted. [REDACTED] queried the 25X1A
provisions for accomplishing visual security at the window
(drapes (?) - an OC-E recommendation is required).

p. Our comments were accepted.

8. Sheet 14

a. The air-conditioning and ventilation systems are to be
extensively redesigned.

b. Rooms 126, 127, 128, and 129 were deleted; the area will
be walled and roofed however.

9. Sheet 15

a. The proper provision of security bars was discussed at
length. Our requirements will be met.

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b. GFE drawings were turned over to the [REDACTED]
More details are needed to verify blower sizes, locations, ducts,
and location thereof, etc. (Action - OC-E)

25X1A c. Trapdoor will be properly hinged.

10. Sheets 17, 18, 21, 22, and 23 - all comments accepted. The
[REDACTED] had neglected to include the Guardhouse and the
Generator House in the A&E scope of work.

11. Sheet 24

a. Oil tank fill pipe is on the tank. A hose must be
run from the tanker to the fill pipe.

b. Separate grounding will be provided.

12. Sheet 26

a, b, c, and e - comments accepted; considerable redesign
to be done; plenum in ceiling.

d. "Z" pipes will be relocated to our requirements.

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13. Sheet 28 - comment accepted.

14. Sheet 34

a. [REDACTED] requested that we confirm foot valve requirement and that we provide more information on the diesels. (Action - OC-E)

b. See comment a above.

c. Volume indicators will be provided where requested.

d. Oil tank is filled from top.

NOTE: [REDACTED] asked whether [REDACTED] can leave the high lift pump on the new 100 KW diesel after it is moved. (Action - OC-E)

15. Sheet 35 - translation will be provided.

16. Sheet 37

a. Guardhouse cabling will be shown.

b. Transformer station will be outside the compound.

c. It appears that we had an error in the scope of work which had asked for five-foot candles at the fence. (Paragraph 22, page 11 of 8 August 1967 Scope of Work) [REDACTED] in Washington and the 1966 Illuminating Engineering Society Handbook both require 0.1 fc for fence lighting in critical areas, 2.0 fc at pedestrian entrances, and 1.0 fc at vehicular entrances. Our requirements were restated as 1 fc around building; 0.5 fc at fence.

17. Sheet 38

a. Self-supporting tower will be grounded in accordance to our requirements.

b. Oil tank will be provided with separate ground.

c. The perimeter wire will be galvanized steel in accordance with local standards; electrolysis problems are such that copper grounds in this area tend to steal zinc from all surrounding areas.

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d. Perimeter wire will be rerouted to our requirements.

18. Sheet 39

a. See Sheet 38 comments.

b. Building perimeter wire (inner perimeter) will be located in the wall in order to facilitate connections to the reinforcing steel.

c. - g. Comments accepted.

19. Sheet 40

a, b, and c. Comments accepted.

d. - j. Comments accepted. All reviewing engineers have been handicapped by the lack of design analysis data from the A&E. This will be provided with the next submission.

20. Sheets 41, 42, 43 - all comments accepted, except that disconnecting means are required in the lightning protection system (Sheet 43) for testing purposes.

21. Sheet 44

a. Comment accepted. A new description of switchgear operation is required. (Action - OC-E)

b. Comments accepted.

c. Air-conditioning to be redesigned. (100 KW load likely)

d, e, and f. Guardhouse and Generator House inadvertently omitted in [REDACTED] scope of work to A&E.

22. Sheet 45 - comment accepted.

23. Sheet 46 - comments accepted except that transformer station will remain outside the fence. Details on the 15 KW generator are needed.

24. Sheet 47 - comments accepted although [REDACTED] requested further descriptive data on the generators.

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